

Method for Target Detection and Identification by Using Proximity Pixel Information

Abstract of Disclosure

An efficient approach to exploit hyperspectral imagery and detect target of interest
5 is disclosed. This approach uses proximity pixels as reference signatures to detect potential discontinuity that represents material of unknown existing on the terrain. By incorporating signature of a chosen material of interest, this approach provides an effective way for target detection and identification. An evolutionary algorithm is employed to estimate the abundance of material of interest.

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